

FIG. 1



QUEUE FILL LOGIC

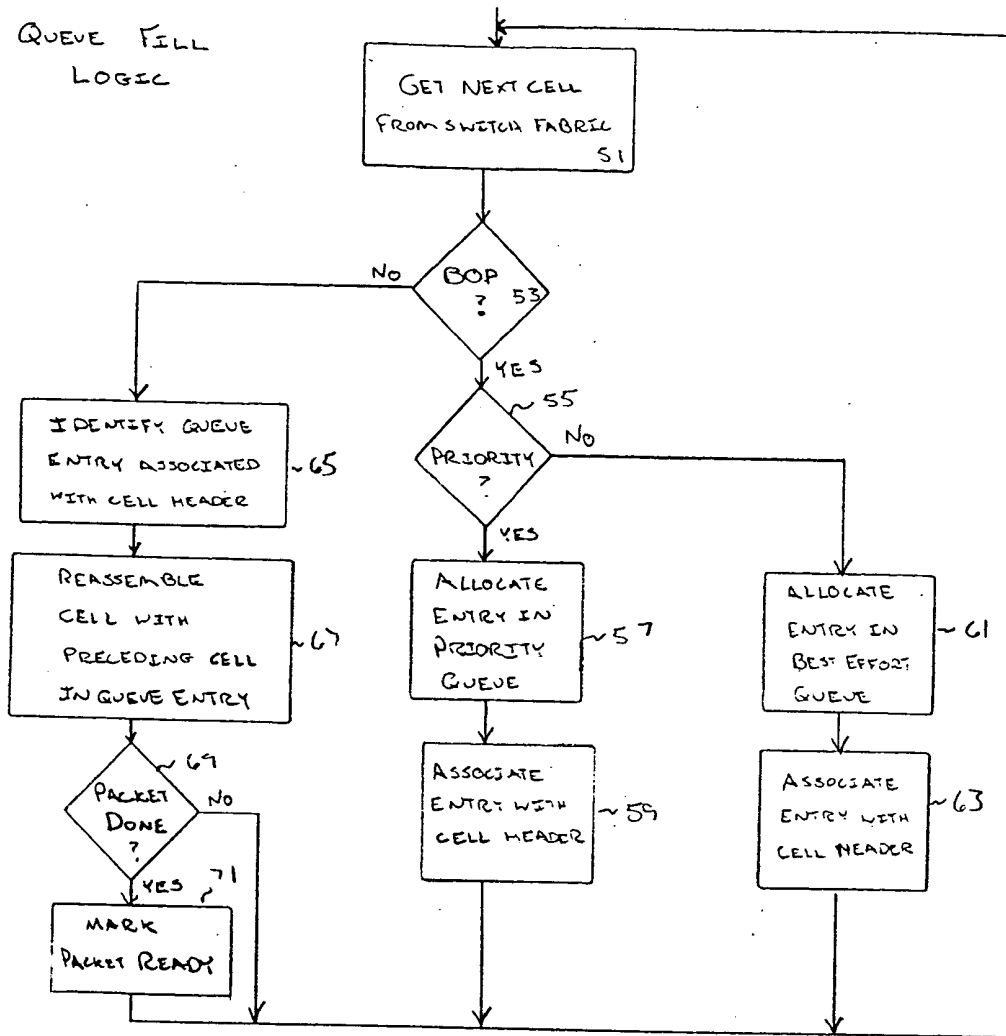


FIG. 2A

QUEUE DRAIN LOGIC

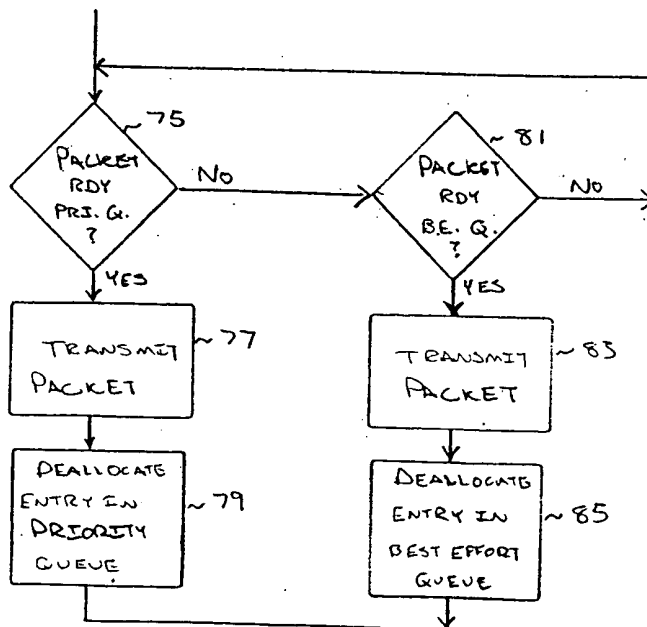


FIG. 2B

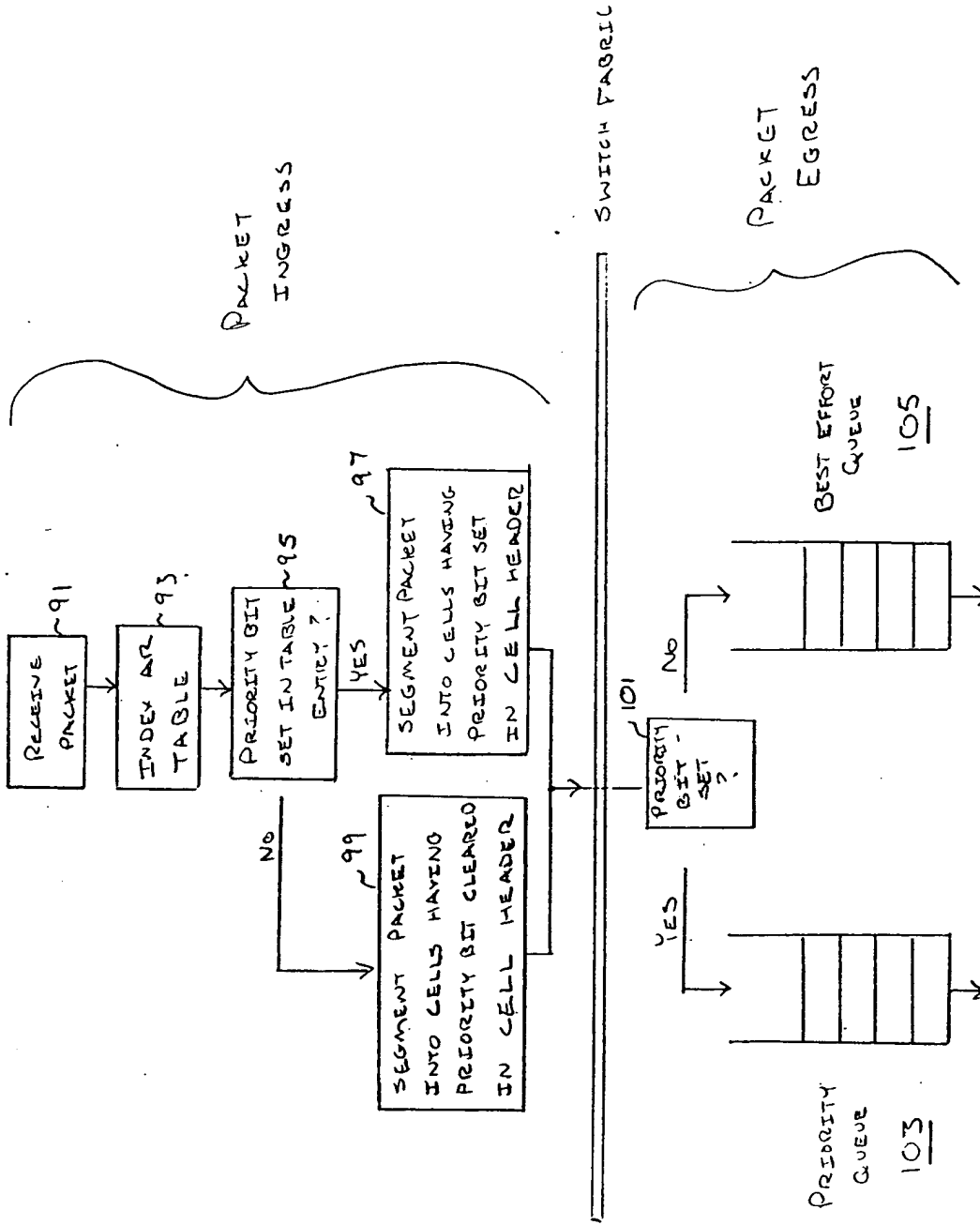


FIG. 3

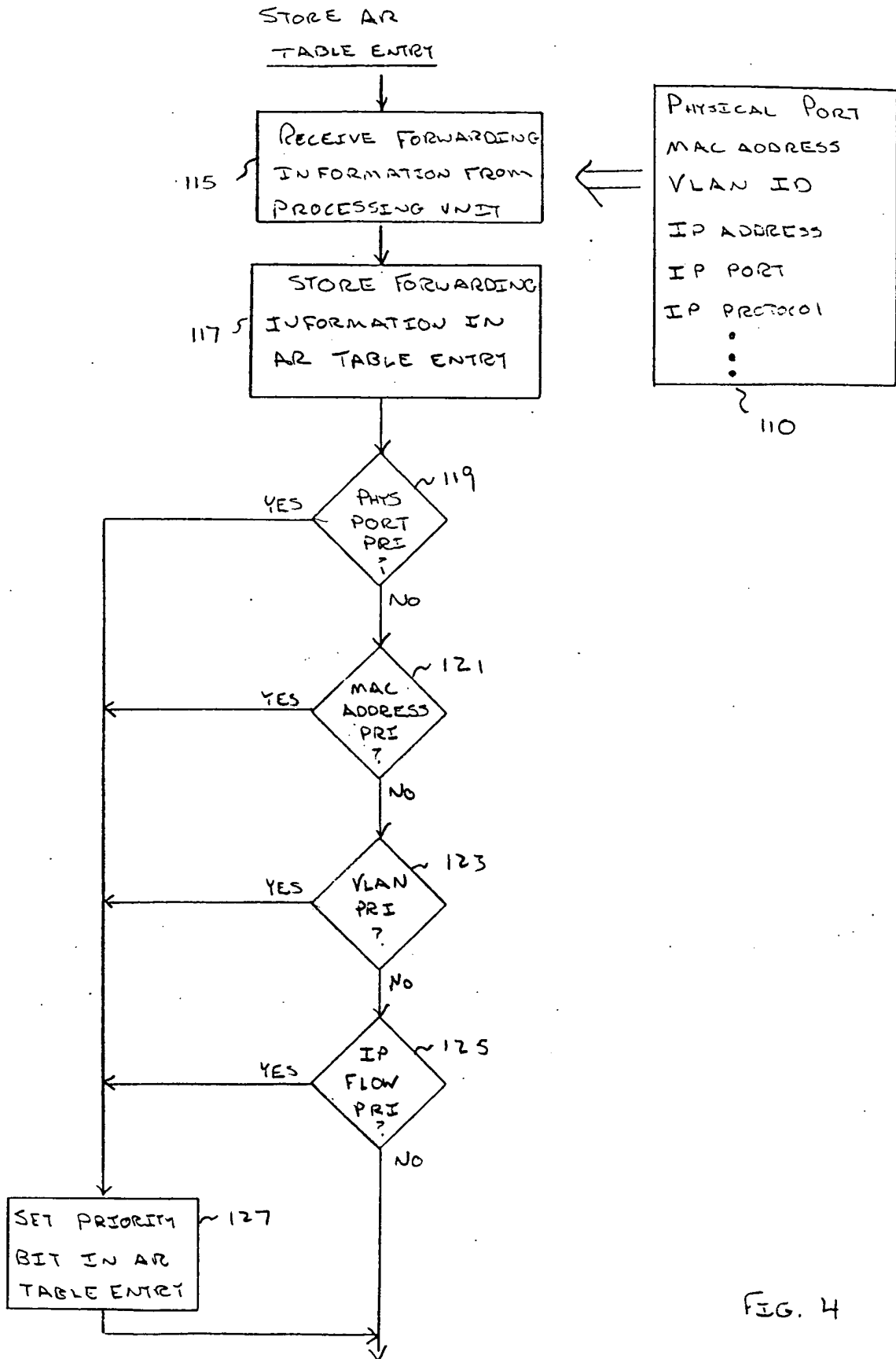


FIG. 4

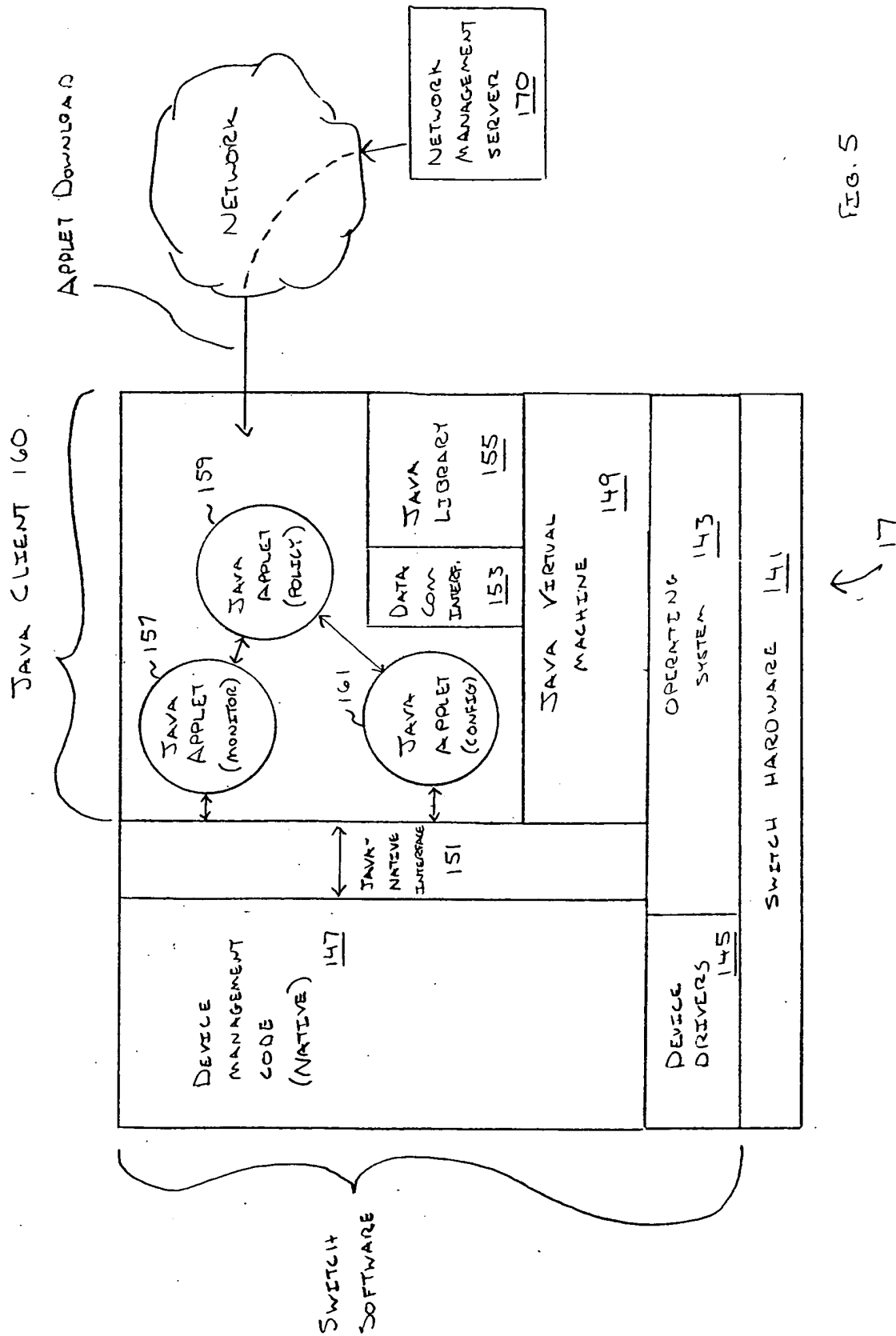


FIG. 5



MONITOR:
FOREVER
{
 READ_DEST_MAC_UTIL% (PORT1, MAC ADDR A)
 READ_DEST_MAC_UTIL% (PORT1, MAC ADDR B)
 DELAY 10MS
}

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POLICY ENFORCEMENT:
A%: LINE UTILIZATION % MAC ADDR A
B%: LINE UTILIZATION % MAC ADDR B
QA_S: QUEUE ASSIGNMENT OF SERVER MAC ADDR TRAFFIC
QA_A: QUEUE ASSIGNMENT OF MAC ADDR A TRAFFIC
QA_B: QUEUE ASSIGNMENT OF MAC ADDR B TRAFFIC

DELTA = 5%

QA_S = QA_A = QA_B = PRI. Q

FOREVER

{
 GET A%, B% FROM MONITOR

181 { IF (QA_A == PRI. Q AND QA_B == PRI. Q) AND
 ((A%+B%) > 80%)

 QA_A = B.E. Q

183 { IF (QA_A == B.E. Q AND QA_B == PRI. Q) AND
 ((A%+B%) < (80% - DELTA))

 QA_A = PRI. Q

185 { IF (QA_A == B.E. Q AND QA_B == PRI. Q) AND
 (B% > 80%)

 QA_B = B.E. Q

187 { IF (QA_B == B.E. Q) AND
 (B% < (80% - DELTA))

 QA_B = PRI. Q

 DELAY 5MS
}

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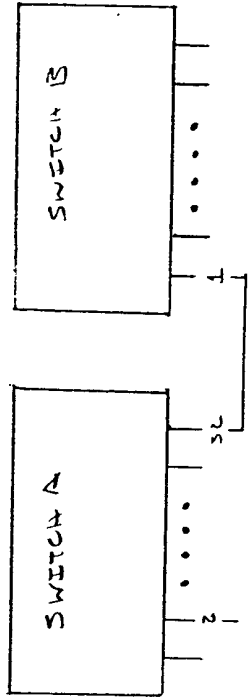


FIG. 6

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CONFIGURATION:

QA_A: QUEUE ASSIGNMENT OF MAC ADDR A TRAFFIC

QA_B: QUEUE ASSIGNMENT OF MAC ADDR B TRAFFIC

LAST_QA_A: QA_A HISTORY

LAST_QA_B: QA_B HISTORY

LAST_QA_A = LAST_QA_B = PRI. Q

FOREVER

{
 GET QA_A, QA_B FROM POLICY ENFORCEMENT

 IF (QA_A != LAST_QA_A)

 {
 MOVE_VIRTUAL_QUEUE (PORT1, MAC ADDR A, QA_A)

 LAST_QA_A = QA_A

 }

 IF (QA_A != LAST_QA_A)

 {
 MOVE_VIRTUAL_QUEUE (PORT1, MAC ADDR A, QA_A)

 LAST_QA_A = QA_A

 }

 DELAY 2.5MS
}

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